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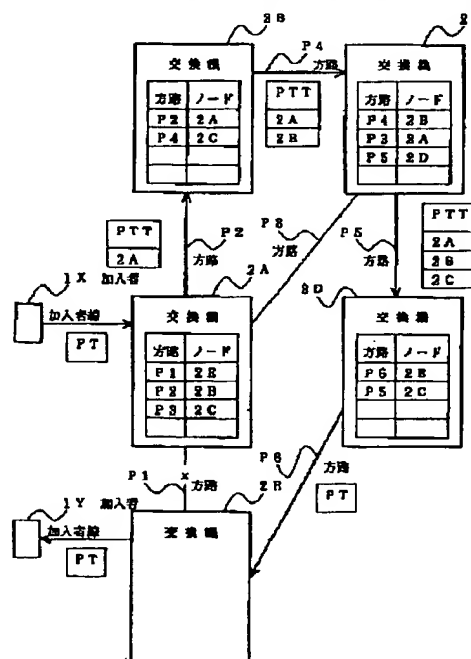
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## SYSTEM FOR SELECTING REPEATER ROUTE

(57) Abstract:

**PURPOSE:** To prevent a repeater packet which makes a detour from passing through a same node with superimposition by providing a passing station setting area in the transmitted packet and setting the history of a repeater node.

**CONSTITUTION:** An exchange 2A which receives the packet PT from a subscriber 1X selects the second order route P2 so as to transmit the repeater packet PTT since the first order route P1 of a routing table is having a fault. When the repeater packet PTT is relayed, the respective packet exchanges 2A-2E sets respective node numbers 2A-2E in the passing station setting areas. A repeater exchange like the exchange 2C selects the route P5 of successive order excluding the routes P3 and P4 which are connected to the node numbers 2A and 2B which are read from the passing station setting area of the repeater packet PTT which executes reception in route selection so as to transmit PTT to the exchange 2D of a connected destination. The exchange 2D selects the route P6 in a same way and the exchange 2E connected to the route P6 transmits not the repeater packet PTT but the packet PT to the destination subscriber 1Y.



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